



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

HWD Acquisition, Inc. dba Hurd Windows & Doors
575 South Whelen Avenue
Medford, WI 54451

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Feel Safe" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1404, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, sheets 1 through 6 of 6, dated 07/21/05, with revision D1 dated 10/04/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 11-0517.03 and consists of this page 1 and evidence pages E-1, E-2, and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-1006.06
Expiration Date: June 29, 2016
Approval Date: November 17, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1404**, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, Sheets 1 through 6 of 6, dated 7/21/05, with revision D1 dated 10/04/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7776.1** dated 03-04-09, signed and sealed by Tom Kolden, P.E.
(Submitted under previous NOA #09-0714.06)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7251**, dated 11/20/06, signed and sealed by Thomas Kolden, P.E.
(Submitted under previous NOA #09-0714.06)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7252**, dated 11/20/06, signed and sealed by Thomas Kolden, P.E.
(Submitted under previous NOA #09-0714.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1006.06

Expiration Date: June 29, 2016

Approval Date: November 17, 2011

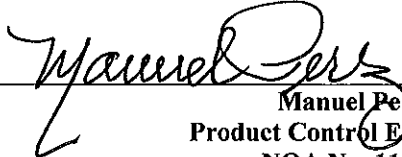
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of 6 specimens, each consisting of three-panel configuration of aluminum clad wood casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-52274.04-602-18**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA #06-013.04)
5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad wood fixed windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-57726.01-201-44**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA #06-0130.04)
6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad fixed and casement stationary windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-58961.01-602-18**, dated 07/28/05, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA #06-0130.04)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, dated 05/12/11 and 10/04/11, prepared by W. W. Schaefer Engineering and Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1006.06
Expiration Date: June 29, 2016
Approval Date: November 17, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

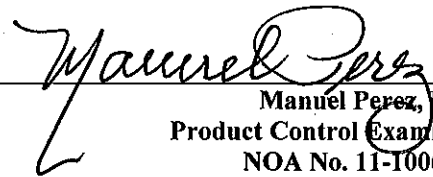
1. Notice of Acceptance No. **08-1118.07** issued to **Oldcastle Glass Inc.** for their "**StormGlass Glass Interlayer**", dated 03/05/09, expiring on 12/11/13.
2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14.

F. STATEMENTS

1. Statement letter of conformance to the FBC-2007 and the FBC-2010, dated 10/04/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated 10/04/11, signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **11-0517.03**, issued to HWD Acquisition, Inc. dba Hurd Windows & Doors for their Series "Feel Safe" Aluminum Clad Wood Fixed Window – L.M.I., approved on 07/14/11 and expiring on 06/29/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1006.06
Expiration Date: June 29, 2016
Approval Date: November 17, 2011

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION:

WOOD FRAME: SQUARE CUT, RABBETED, SILICONE SEALED & SECURED WITH THREE (3) 16 GA. X 1/2" X 2" CROWN STAPLES.

FRAME CLAD: MITER CUT, JOINED WITH A CORNER KEY & TWO (2) NO. 7 X 1/2" SCREWS & SEALED WITH A FOAM GASKET.

WOOD SASH: MORTISE & TENON CONSTRUCTION AND SECURED WITH TWO (2) 14 GA. X 2 1/2" T-NAILS.

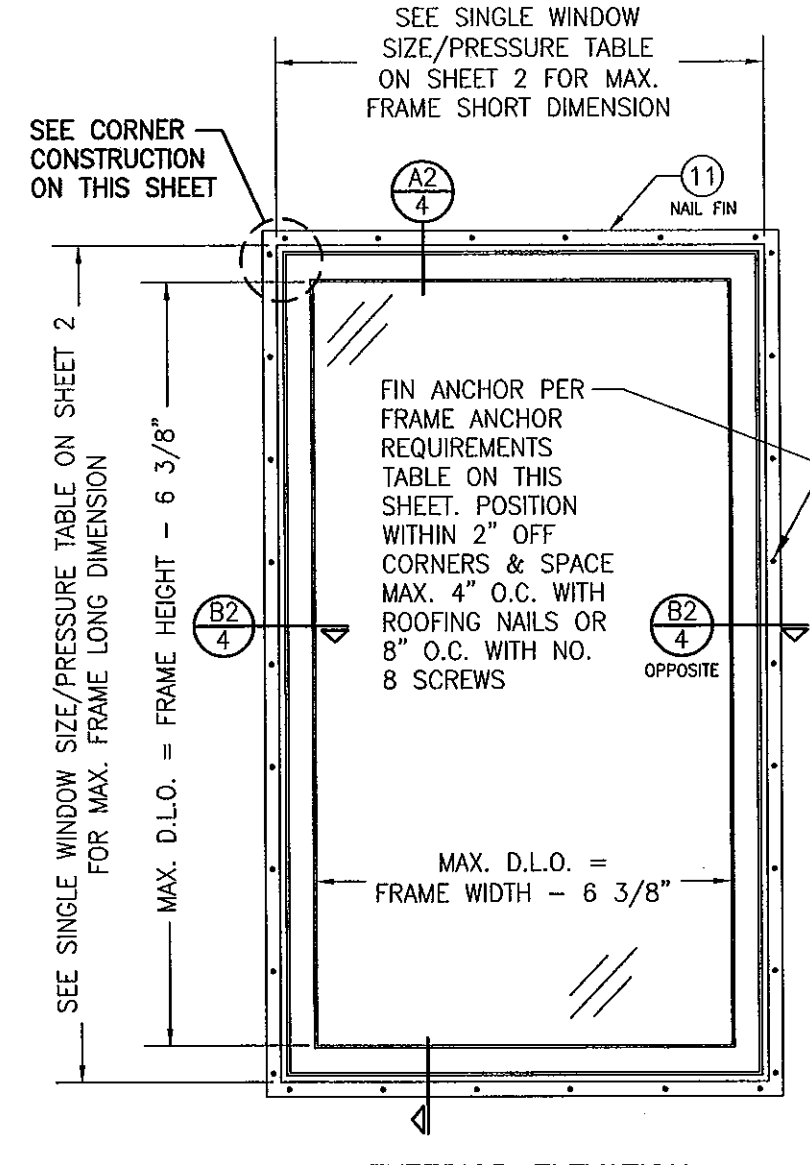
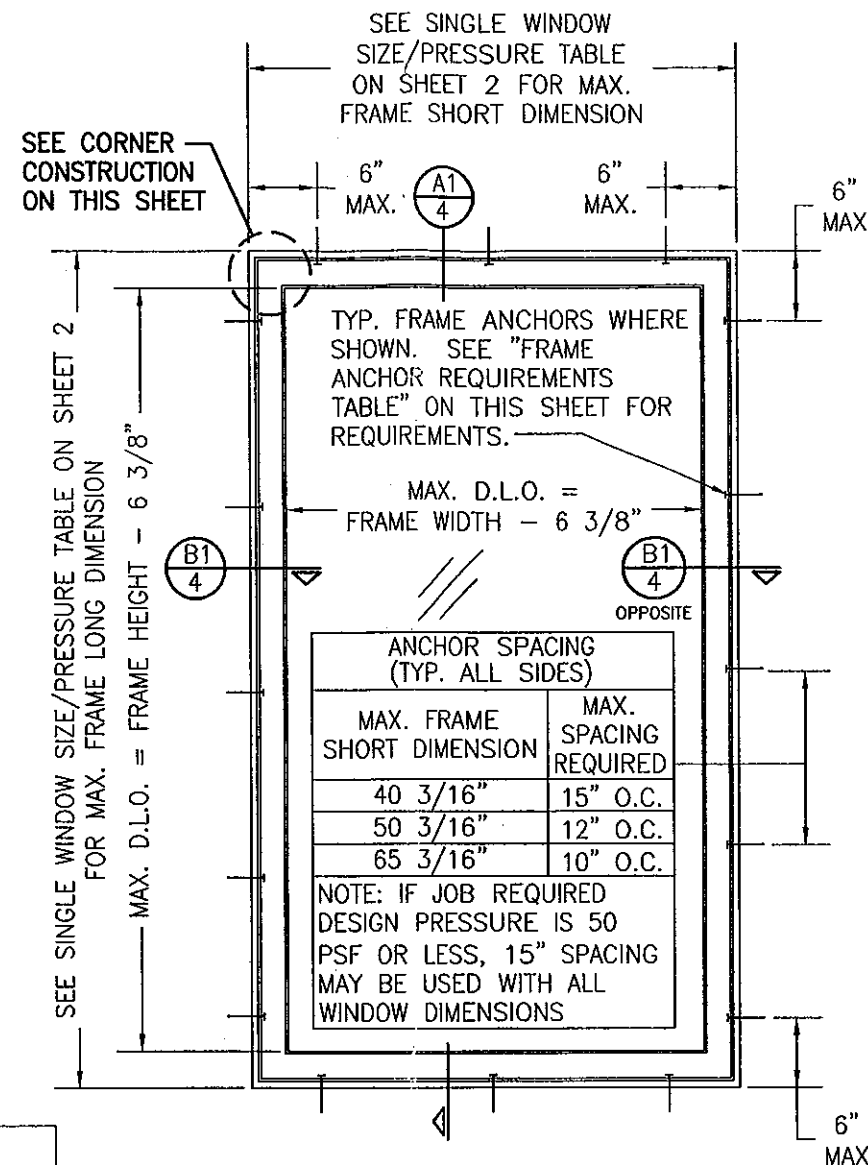
SASH CLAD: SQUARE CUT, BUTTED TOGETHER AND SNAP FIT TO SASH AND SEALED WITH SILICONE.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/4"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

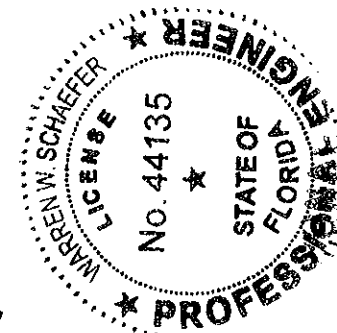
(2) NAIL FIN SCREWS SHALL BE A PAN HEAD OR HEX HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



ALLOWABLE DESIGN PRESSURE

SEE SINGLE WINDOW SIZE/PRESSURE TABLE ON SHEET 2

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006-06
Expiration Date June 29, 2016
By *Manuel Perez*
Miami Dade Product Control

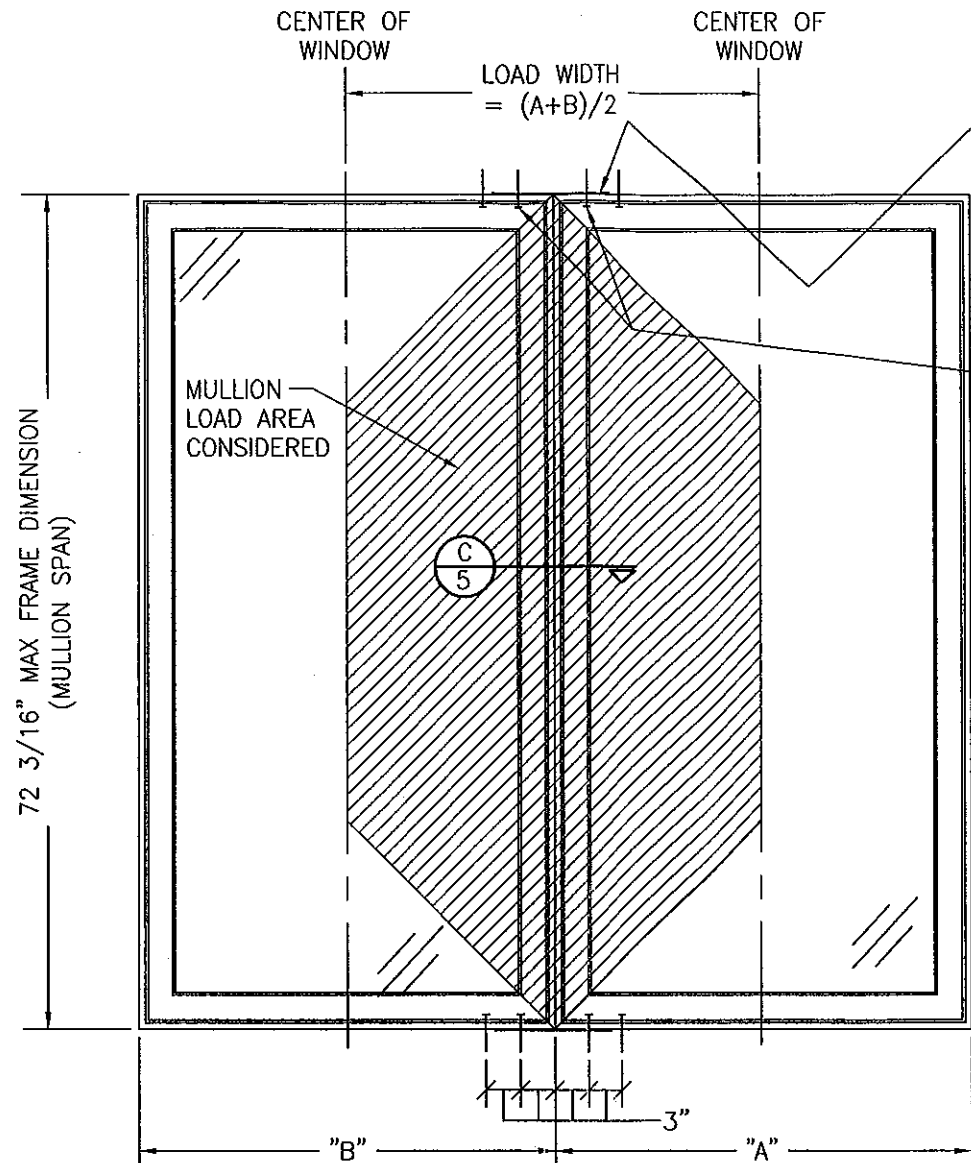


DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 7/21/05
DATE 06/30/09	DATE 06/29/11
BY W.W.S.	BY W.R.M.
REVISION DESCRIPTION	TRANSOM CONDITION
NO. B1	ADD TWIN WINDOW WITH
NO. C1	CHANGE M.F.G. NAME
NO. D1	UPDATE CONSULTANT
NO.	ADDRESS
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
MANUFACTURER HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION OCT 04 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1404	REV. D
SHEET NO. 1	OF 6

ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE									
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)							
		GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTIONS 4 & 5	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG
144	45					65.0	80.0		
	29			65.0	70.0	65.0	80.0	65.0	70.0
	18	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
132	50					65.0	80.0		
	32			65.0	70.0	65.0	80.0	65.0	70.0
	22			65.0	85.0	65.0	80.0	65.0	70.0
120	18	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	55					65.0	80.0		
	36			65.0	70.0	65.0	80.0	65.0	70.0
108	24			65.0	85.0	65.0	80.0	65.0	70.0
	21	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	61					65.0	80.0		
101	40			65.0	70.0	65.0	80.0	65.0	70.0
	24	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
96	42			65.0	70.0	65.0	80.0	65.0	70.0
	28			65.0	85.0	65.0	80.0	65.0	70.0
	24	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
90	65					65.0	80.0		
	44			65.0	70.0	65.0	80.0	65.0	70.0
	30			65.0	85.0	65.0	80.0	65.0	70.0
84	27	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
	48			65.0	70.0	65.0	80.0	65.0	70.0
78	32			65.0	85.0	65.0	80.0	65.0	70.0
	29	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
72	51			65.0	70.0	65.0	80.0	65.0	70.0
	34			65.0	85.0	65.0	80.0	65.0	70.0
	31	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
64	65					65.0	80.0		
	55			65.0	70.0	65.0	80.0	65.0	70.0
	37			65.0	85.0	65.0	80.0	65.0	70.0
60	33	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
	60			65.0	70.0	65.0	80.0	65.0	70.0
52	40			65.0	85.0	65.0	80.0	65.0	70.0
	36	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
48	48			65.0	70.0	65.0	80.0	65.0	70.0
	50	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	48	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0

NOTES:

- SEE GLAZING DETAILS FOR GLAZING OPTIONS
- CROSSED OUT BOXES DESIGNATE SIZES NOT ACCEPTABLE FOR THE RESPECTIVE GLASS OPTION.
- ALL DIMENSIONS ARE +/- 3/16"



25 GA. X 2 3/8" X 10 1/4" GALVANIZED MULLION
END REINFORCEMENT PLATE
STAPLED TO EACH JAMB
WITH TEN(10) 16 GA. X
7/16" X 9/16" LONG
STAPLES. (TYP. EACH END
OF EACH MULLION)

NO. 10 SCREWS PER FRAME
ANCHOR REQUIREMENTS
TABLE. FOUR (4) TOTAL PER
MULLION END WHETHER
WINDOW IS SCREW MOUNTED
OR FIN MOUNTED.

MULTIPLE UNIT NOTES:

- THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE MULLION LOAD TABLE ON THIS SHEET FOR ALLOWABLE UNIT PRESSURE.
- WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. TO INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOW(S) WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOW, WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL LIMIT THE SAG OF THE HORIZONTAL MULLION TO MAX. 1/8".

**EXTERIOR ELEVATION:
MULTIPLE SIDE-BY-SIDE FIXED WINDOWS**

SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)

(DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER IN ONE DIRECTION INTO ONE OPENING.)

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

ALLOWABLE PRESSURE (SIDE-BY-SIDE UNITS)			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (P.S.F.)	
		POSITIVE	NEGATIVE
72	60	61.8	66.5
	54	65.0	70.0
66	66	65.0	70.0
60	72	65.0	70.0
60	48	65.0	85.0
LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.			
LOAD WIDTH VALUES ARE +/- 1/2"			

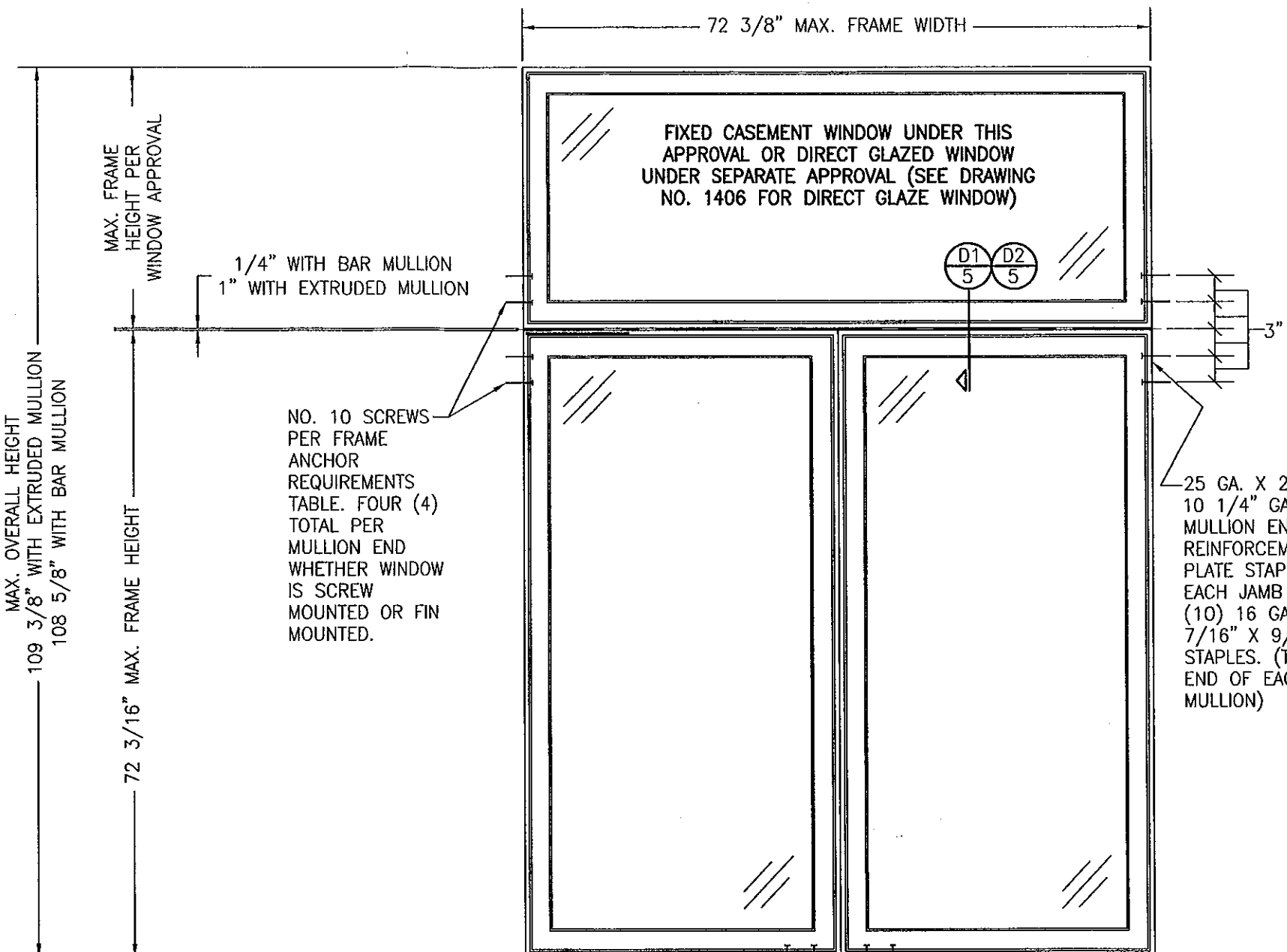
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006-06
Expiration Date June 21, 2016

By *Warren W. Schaefer*
Miami Dade Product Control



DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 7/21/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: OCT 04 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1404		REV. D	
SHEET NO. 2		OF 6	

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 7/21/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW		MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION: OCT 04 2011		P.E. NO. 44135	
DRAWING NO. 1404		REV. D	
SHEET NO. 3		OF 6	



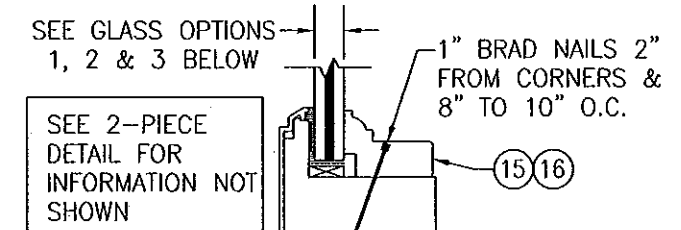
**EXTERIOR ELEVATION:
TWIN WINDOW WITH TRANSOM**
SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)

**ALLOWABLE DESIGN PRESSURE
(TWIN WINDOW WITH TRANSOM)**

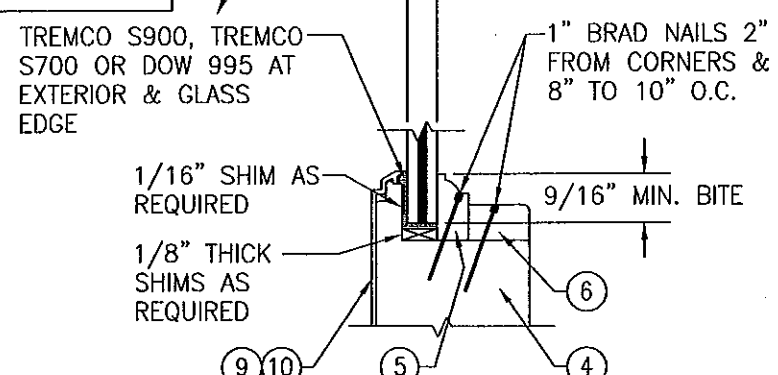
ALLOWABLE PRESSURE SHALL BE THE LESSER OF +65/-70 PSF OR THAT SPECIFIED FOR THE INDIVIDUAL WINDOWS. (SEE SINGLE WINDOW SIZE/PRESSURE TABLE ON SHEET 2)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006-06
Expiration Date: June 29, 2016
By: *Manuel Perez*
Miami Dade Product Control



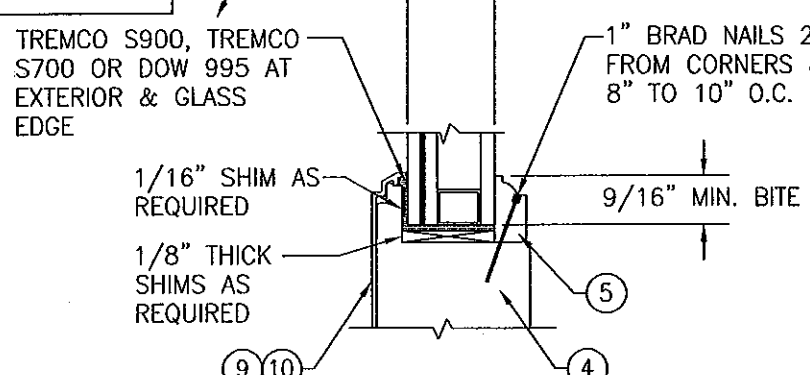
**NON-I.G. GLAZING DETAIL WITH
1-PIECE GLAZING BEAD**

WHEN USING TREMCO S900, THE OVERALL WINDOW FRAME AREA MAY NOT EXCEED 30.4 S.F.



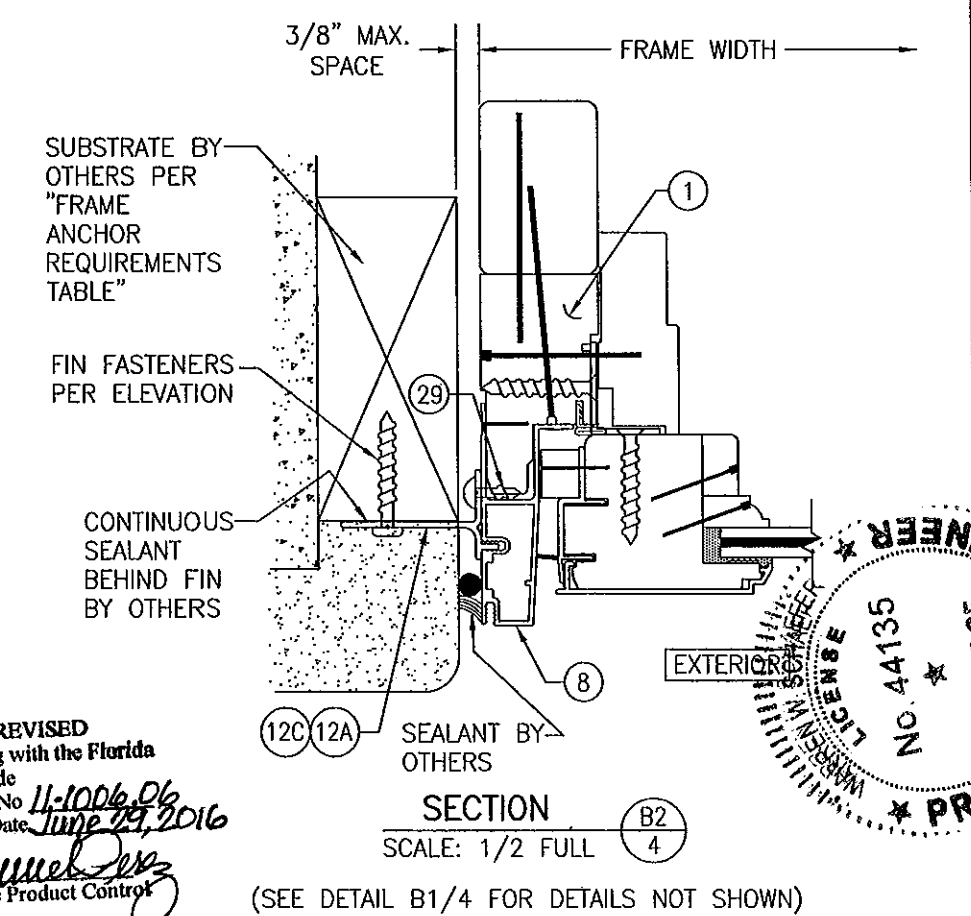
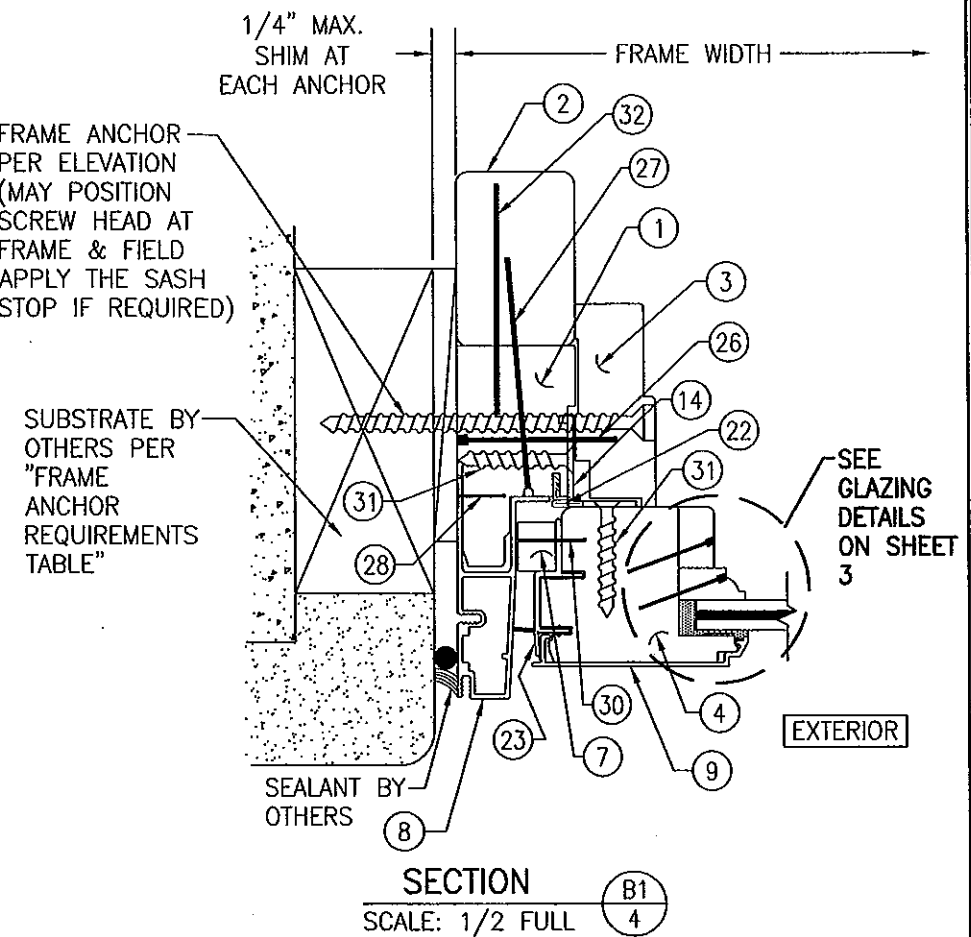
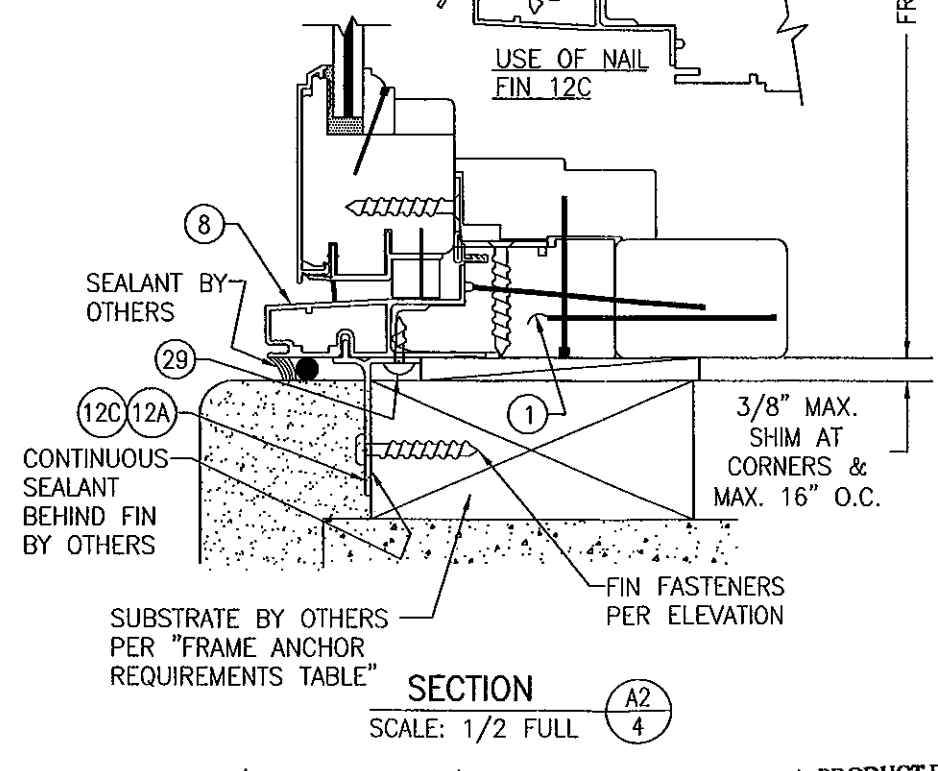
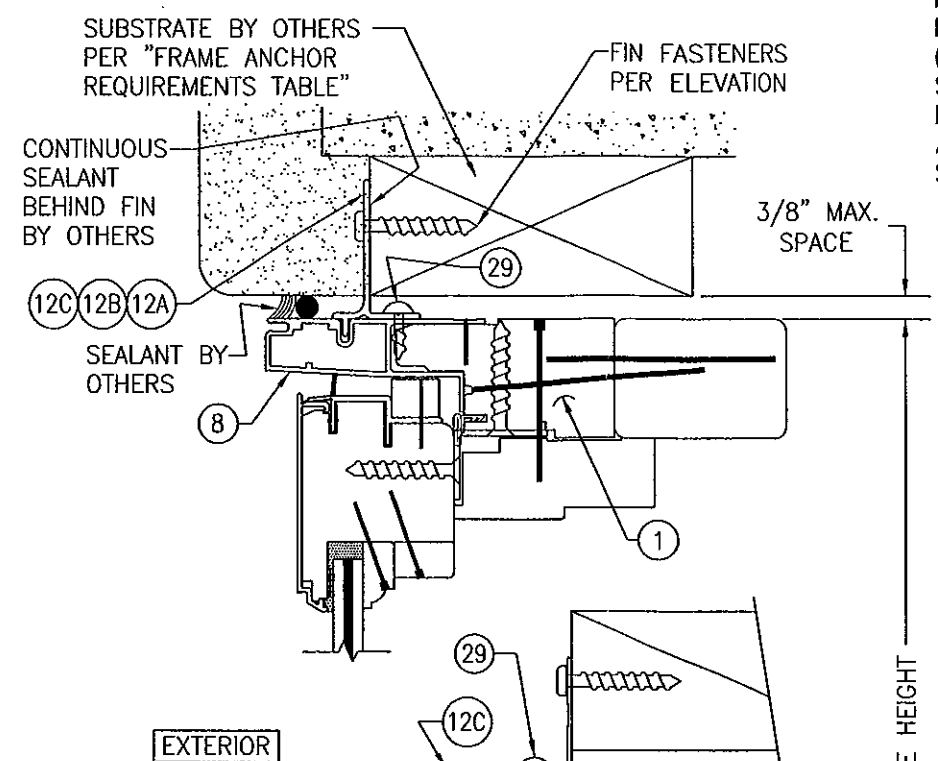
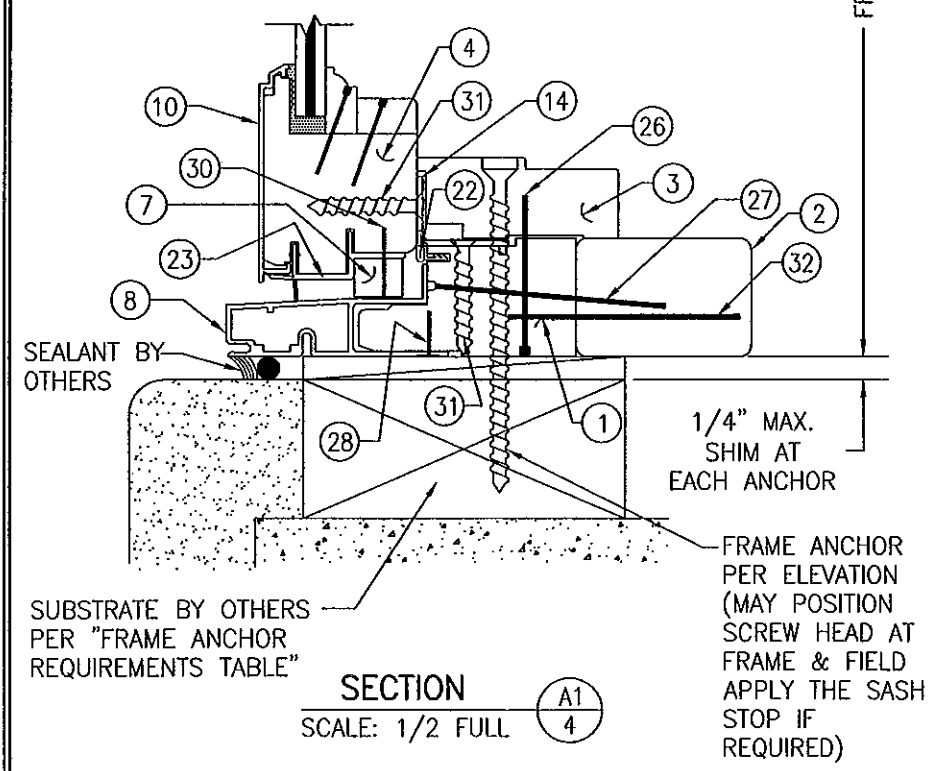
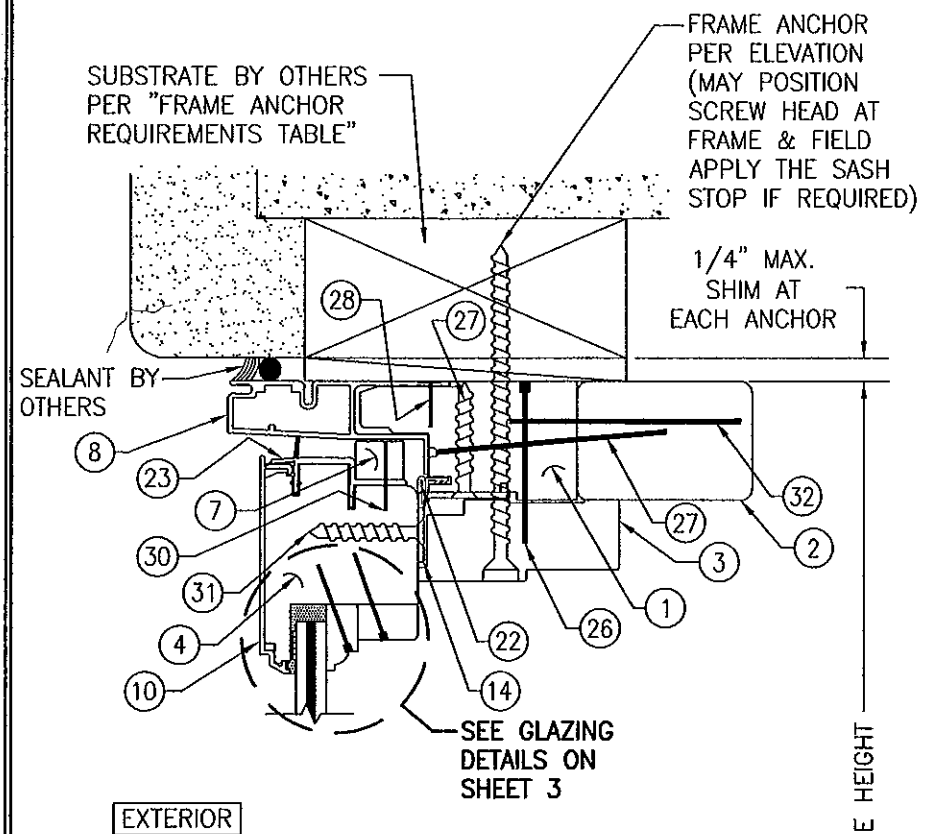
**NON-I.G. GLAZING DETAIL WITH
2-PIECE GLAZING BEAD**

WHEN USING TREMCO S900 WITH GLASS OPTION 4, THE OVERALL WINDOW FRAME AREA MAY NOT EXCEED 29.9 S.F.



**I.G. GLAZING DETAIL WITH
1-PIECE GLAZING BEAD**

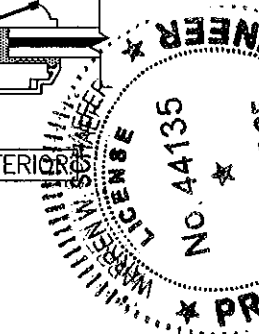
- OPTION 1:** 3/8" LAMINATED GLASS BY SOLUTIA (5/32" AN/0.09 SOLUTIA SAFLEX IIIIG PVB/5/32" AN).
- OPTION 2:** 9/16" LAMINATED OLDCASTLE STORMGLASS (1/4" AN/0.075 SOLUTIA VANCEVA/1/4" AN).
- OPTION 3:** 9/16" LAMINATED OLDCASTLE STORMGLASS (1/4" HT. ST./0.075 SOLUTIA VANCEVA/1/4" HT. ST.).
- OPTION 4:** 1" I.G. GLASS WITH 3/8" EXTERIOR LAMINATED GLASS BY SOLUTIA (5/32" HT. ST./0.09 SOLUTIA SAFLEX IIIIG PVB/5/32" HT. ST.), 7/16" SPACER & 5/32" TEMPERED AT INTERIOR
- OPTION 5:** 1" I.G. GLASS WITH 7/16" EXTERIOR LAMINATED GLASS BY OLD CASTLE (3/16" HT. ST./0.075 STORMGLASS/3/16" HT. ST.), 3/8" SPACER & 3/16" TEMPERED AT INTERIOR



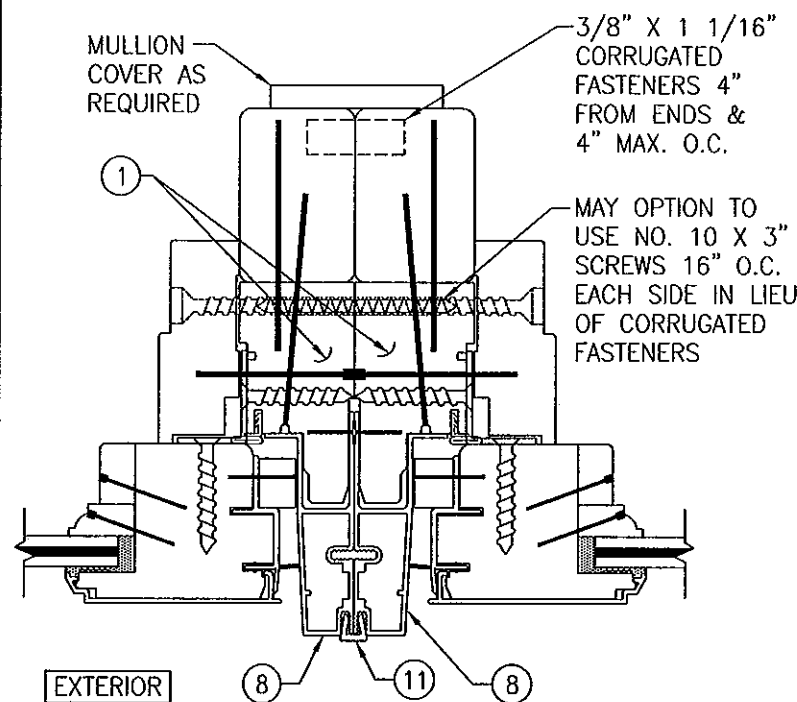
(SEE SECTION A1/4 FOR DETAILS NOT SHOWN)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006-06
Expiration Date June 29, 2016

By *Manuel Perez*
Miami Dade Product Control

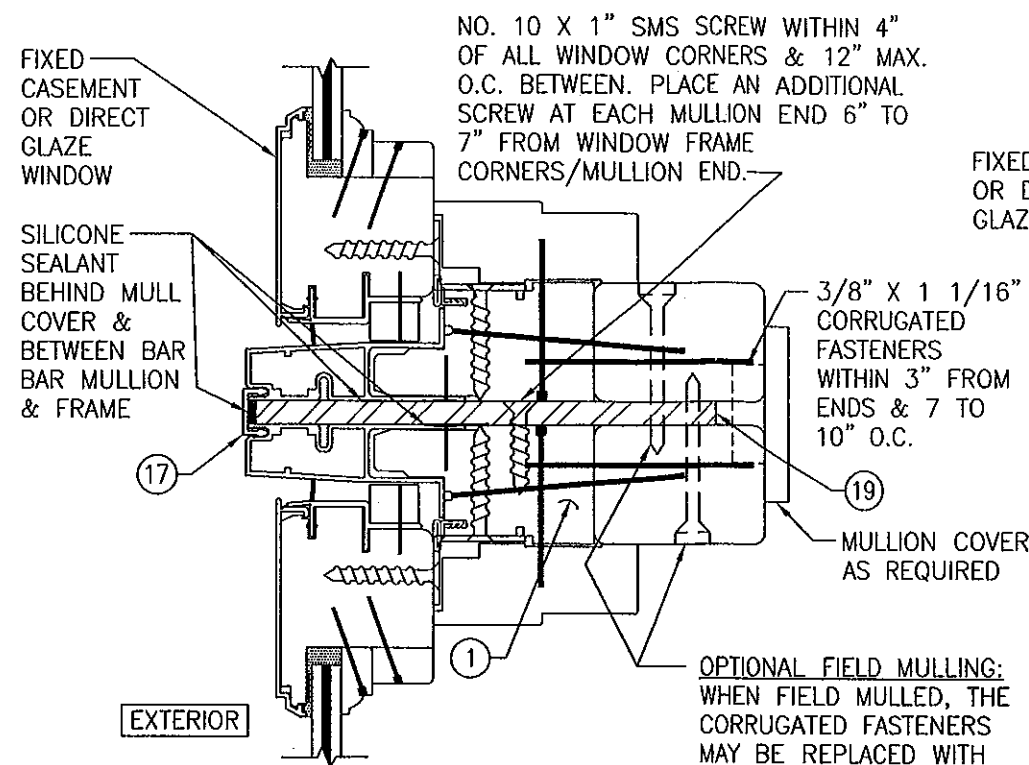


DRAWN BY:	S.T.R.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	7/21/05
DATE			
BY			
REVISION DESCRIPTION			
NO.			
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873 CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: PROFESSIONAL ENGINEER NO. 44135 WARREN W. SCHAEFFER P.E. NO. 44135			
DRAWING NO.	1404	REV.	D
SHEET NO.	4	OF	6



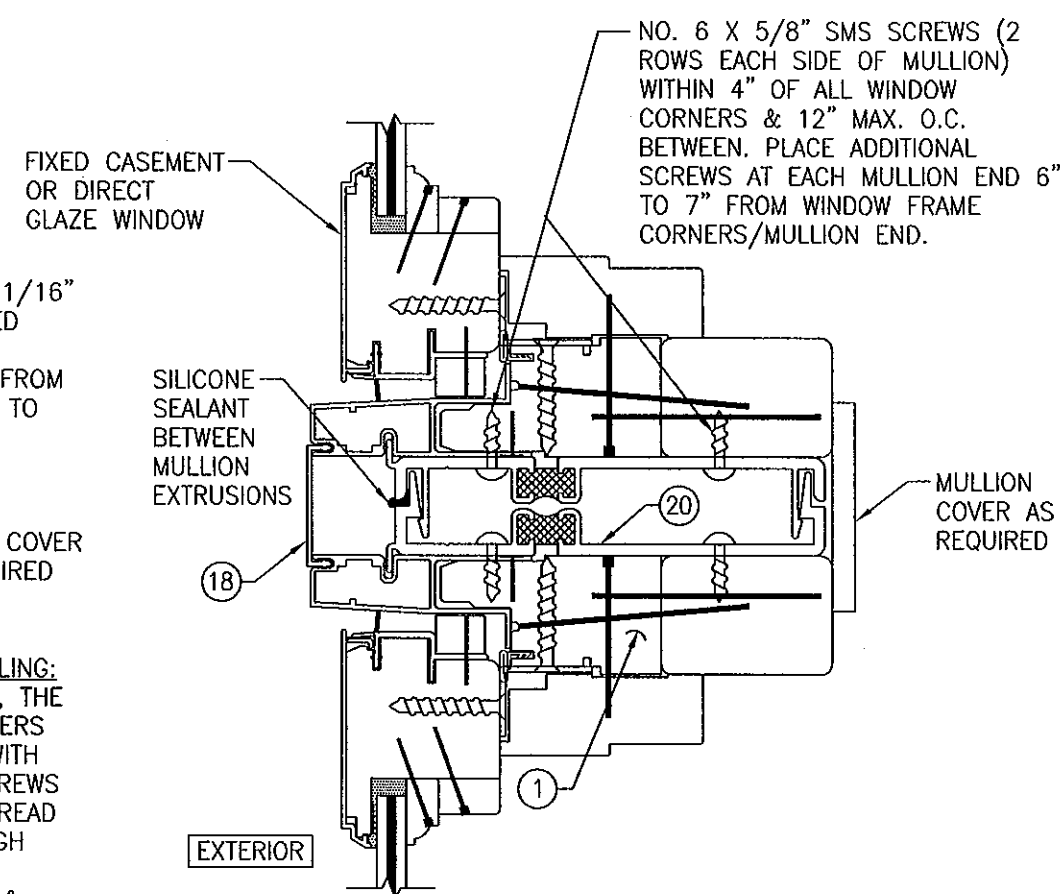
SECTION C-5
SCALE: 1/2 FULL

(SEE SECTION B1/4 FOR DETAILS NOT SHOWN)

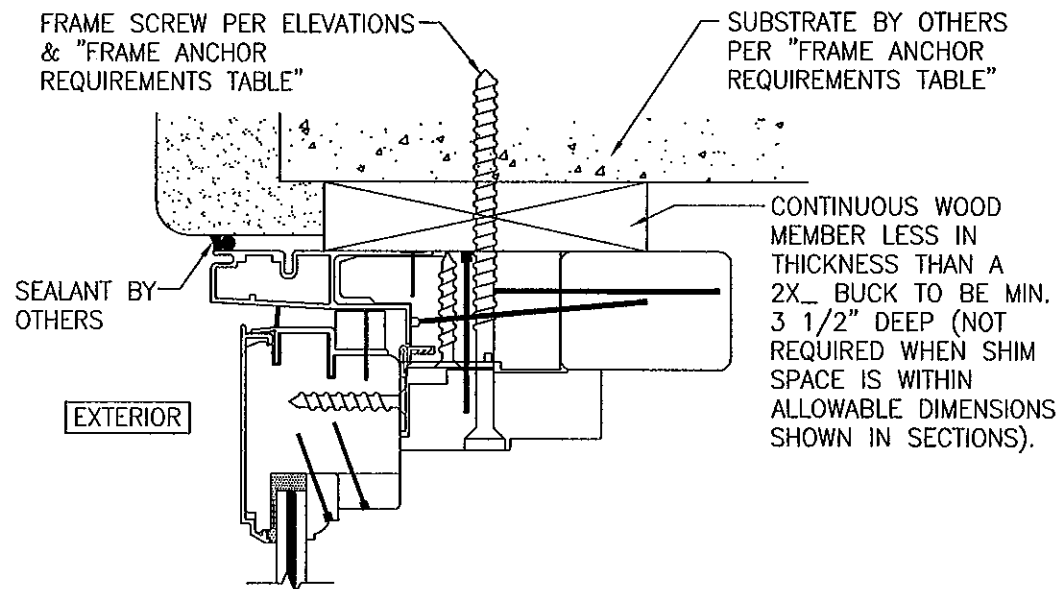


SECTION D1-5
SCALE: 1/2 FULL

OPTIONAL FIELD MULLING:
WHEN FIELD MULLED, THE
CORRUGATED FASTENERS
MAY BE REPLACED WITH
NO. 10 SCREWS. SCREWS
MUST HAVE FULL THREAD
PENETRATION THROUGH
PLATE & BE PLACED
WITHIN 6\"/>

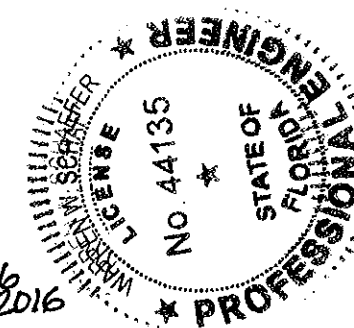


SECTION D2-5
SCALE: 1/2 FULL



OPTIONAL DIRECT MOUNT DETAIL
TO BLOCK OR CONCRETE WITH SPACER OR SHIM
HEAD SECTION SHOWN, SIDES AND SILL SIMILAR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 114006-D6
Expiration Date JUNE 21, 2016
By *Manuel Perez*
Miami Dade Product Control

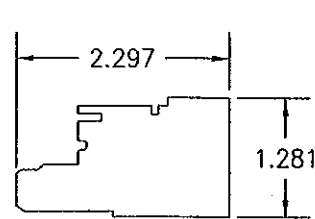


DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 7/21/05	
NO.	REVISION DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			
113			
114			
115			
116			
117			
118			
119			
120			
121			
122			
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			
133			
134			
135			
136			
137			
138			
139			
140			
141			
142			
143			
144			
145			
146			
147			
148			
149			
150			
151			
152			
153			
154			
155			
156			
157			
158			
159			
160			
161			
162			
163			
164			
165			
166			
167			
168			
169			
170			
171			
172			
173			
174			
175			
176			
177			
178			
179			
180			
181			
182			
183			
184			
185			
186			
187			
188			
189			
190			
191			
192			
193			
194			
195			
196			
197			
198			
199			
200			
201			
202			
203			
204			
205			
206			
207			
208			
209			
210			
211			
212			
213			
214			
215			
216			
217			
218			
219			
220			
221			
222			
223			
224			
225			
226			
227			
228			
229			
230			
231			
232			
233			
234			
235			
236			
237			
238			
239			
240			
241			
242			
243			
244			
245			
246			
247			
248			
249			
250			
251			
252			
253			
254			
255			
256			
257			
258			
259			
260			
261			
262			
263			
264			
265			
266			
267			
268			
269			
270			
271			
272			
273			
274			
275			
276			
277			
278			
279			
280			
281			
282			
283			
284			
285			
286			
287			
288			
289			
290			
291			
292			
293			
294			
295			
296			
297			
298			
299			
300			
301			
302			
303			
304			
305			
306			
307			
308			
309			
310			
311			
312			
313			
314			
315			
316			
317			
318			
319			
320			
321			
322			
323			
324			
325			
326			
327			
328			
329			
330			
331			
332			
333			
334			
335			
336			
337			
338			
339			
340			
341			
342			
343			
344			
345			
346			
347			
348			
349			
350			
351			
352			
353			
354			
355			
356			
357			
358			
359			
360			
361			
362			
363			
364			
365			
366			
367			
368			
369			
370			
371			
372			
373			
374			
375			
376			
377			
378			
379			
380			
381			
382			
383			
384			
385			
386			
387			
388			
389			
390			
391			
392			
393			
394			
395			
396			
397			
398			
399			
400			
401			
402			
403			
404			
405			
406			
407			
408			
409			
410			
411			
412			
413			
414			
415			
416			
417			
418			
419			
420			
421			
422			
423			
424			
425			
426			
427			
428			
429			
430			
431			
432			
433			
434			
435			
436			
437			
438			

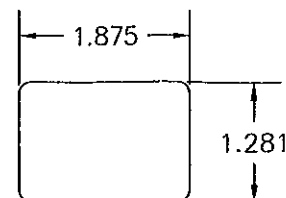
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	CCSE 223	HEAD, SILL, & SIDE JAMB	* PONDEROSA/SUGAR PINE
2	CCSE 225	JAMB EXTENDER	* PONDEROSA/SUGAR PINE
3	HC 155	JAMB STOP	* PONDEROSA/SUGAR PINE
4	ECSE 200	STILE AND RAIL	* PONDEROSA/SUGAR PINE
5	ALWD 375	GLAZING BEAD	* PONDEROSA/SUGAR PINE
6	300-0025	GLAZING BEAD EXTENSION	* PONDEROSA/SUGAR PINE
7	CCSE 300	SASH SPACER BLOCK	* PONDEROSA/SUGAR PINE
8	CCSE 440	JAMB CLAD	6063-T6 ALUMINUM
9	ECSE 400	RAIL/STILE CLAD	6063-T5 ALUMINUM
10	ECSE 405	OPTIONAL RAIL CLAD	6063-T5 ALUMINUM
11	PA 115	MULLION CLIP	6060-T5 ALUMINUM
12A	-	STANDARD NAIL FIN	6063-T6 ALUMINUM
12B	-	STANDARD NAIL FIN WITH DRIP	6063-T6 ALUMINUM
12C	-	DRIP CAP NAIL FIN	6063-T6 ALUMINUM
13	CCSE 620	JAMB CORNER KEY	NYLON 66 MATERIAL
14	-	STATIONARY SASH CLIP	5" FROM CORNERS & 10" O.C.
15	216273	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
16	216275	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
17	-	MULLION COVER	6063-T6 ALUMINUM
18	-	MULLION COVER	6063-T6 ALUMINUM
19	-	MULLION BAR	6061-T6 ALUMINUM
20	-	MULLION EXTRUSION	6063-T6 ALUMINUM
SEALS AND SEALANTS			
22	020546	FRAME WEATHERSTRIP	GREY SANTOPRENE FOAM
23	ECSE 625	SASH WEATHERSTRIP	VINYL
FASTENERS			
26	092748	13 GA. 1 1/2" RING SHANK OR SPIRAL NAIL	4" FROM CORNERS & 6" TO 12" O.C.
27	024617	2 1/2" X 1" CROWN STAPLE	2" FROM CORNERS & 10" O.C. (REQUIRED WHEN WINDOW FRAME DIMENSION IN EITHER DIRECTION IS 72 3/16" OR LESS)
28	019892	#18 X 1/2" GSN STAPLE	2" FROM CORNERS & 7" TO 10" O.C.
29	-	#6 X 5/8" PH SCREW	2" FROM CORNERS & 9" O.C.
30	-	18 GA. X 3/4" STAPLE	1 PER SPACER BLOCK
31	-	#8 X 1 1/4" S.S. SMS	2 PER CLIP
32	-	AUTO-NAIL WIRE	4" FROM CORNERS & 8" O.C. (REQUIRED WHEN WINDOW FRAME DIMENSION IN EITHER DIRECTION IS GREATER THAN 72 3/16")

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY HURD WINDOWS & DOORS TO SELECT.

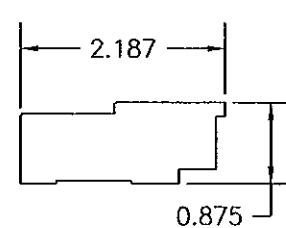
① HEAD, SILL, & SIDE JAMB



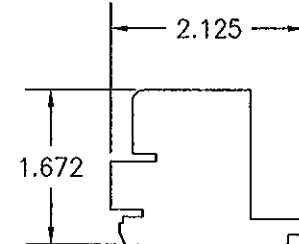
② JAMB EXTENDER



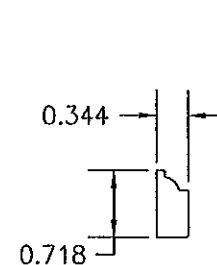
③ JAMB STOP



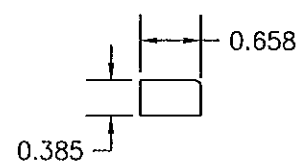
④ STILE AND RAIL



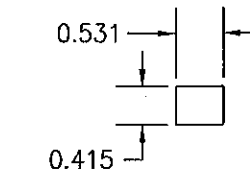
⑤ GLAZING BEAD



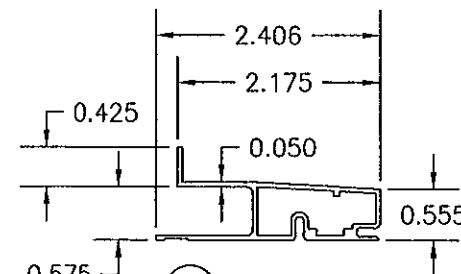
⑥ GLAZING BEAD EXTENSION



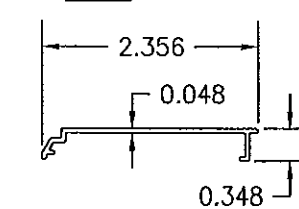
⑦ SASH SPACER BLOCK



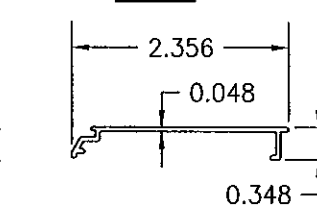
⑧ JAMB CLAD



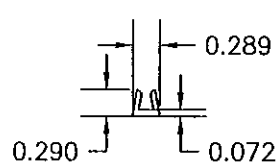
⑨ RAIL/STILE CLAD



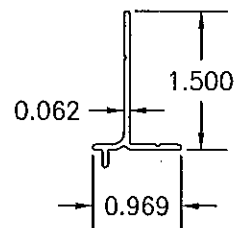
⑩ OPTIONAL RAIL CLAD



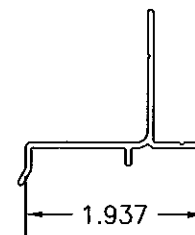
⑪ MULLION CLIP



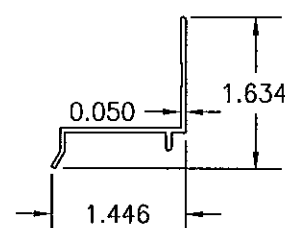
⑫A STANDARD NAIL FIN



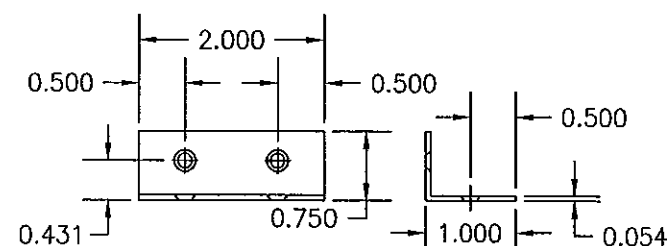
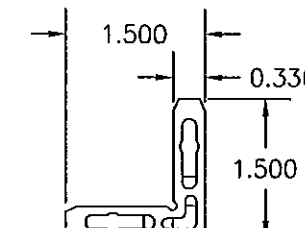
⑫B STANDARD NAIL FIN WITH DRIP



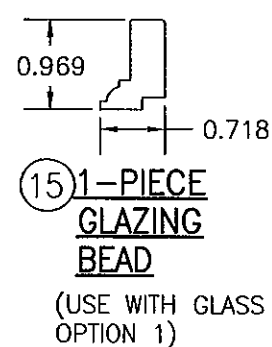
⑫C DRIP CAP NAIL FIN



⑬ JAMB CORNER KEY

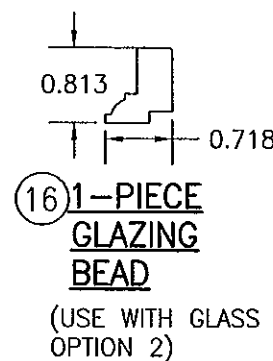


⑭ STATIONARY SASH CLIP



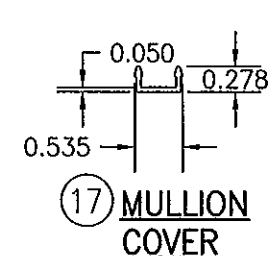
⑮ 1-PIECE GLAZING BEAD

(USE WITH GLASS OPTION 1)

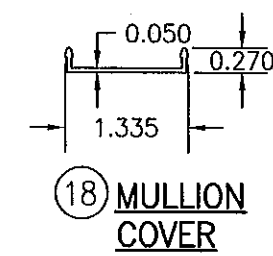


⑯ 1-PIECE GLAZING BEAD

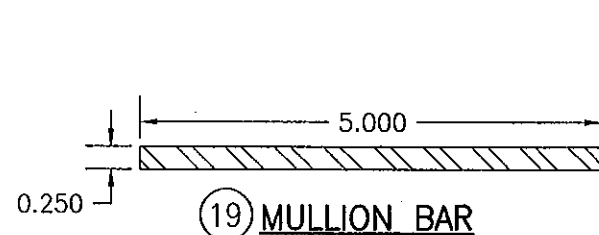
(USE WITH GLASS OPTION 2)



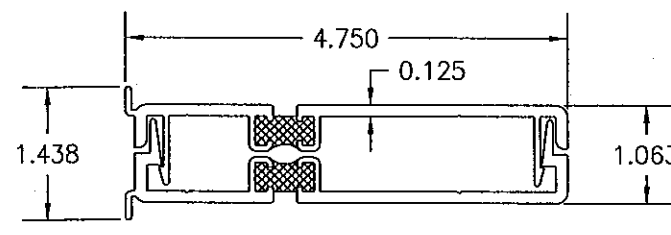
⑰ MULLION COVER



⑱ MULLION COVER

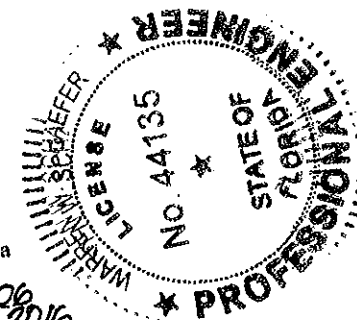


⑲ MULLION BAR



⑳ MULLION EXTRUSION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006-06
Expiration Date June 29, 2016
By *Manuel*
Miami/Dade Product Control



DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 7/21/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CERTIFICATION	OCT 04 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1404	REV. D	SHEET NO. 6 OF 6	